

Service Manual

Dishwasher
integratable fulldor
DWH B80 W
601 186 43

**Model
Version**

DWH B80 W
8542 400 53000

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Family

WRC - IC
MID 5



Technical data

Dimension

Height	82.0 - 87.0	cm
Width	59.7	cm
Depth	57.0	cm
Weight	50	kg

Wooden door for Full Door appliances

Thickness min.	16	mm
Thickness max.	20	mm
Width min.	592	mm
Width max.	595	mm
Height min.	620	mm
Height max.	718	mm
Weight min.	2.5	kg
Weight max.	6.5	kg
Max. stick out over lower edge of appliance door	92	mm
Height of plinth min.	93	mm

Electronic boards

Service boards	see spare part list
Serial boards	see on the boards itself
Programing of version and programmed control board, see „Service“ and „Data set“ on rating plate of inner door:	
UCB (User/Control board)	53481
Data set	53471
Basic UCB (User/Control board) not programmed see on the board itself	4619 727 14212
For programing please use Service Assistance Module (S.A.M.)	4812 289 98001
plus cable	4812 289 98004

Succession of programs

Programs	see program diagram
Succession	P1a-P3a-P5k-P11a-P7b

Datas Energy Label

Reference program	P5k
Energy Performance	3 stars

Alarms

Refill rinse aid

Options

Half load

Program information

End - Acoustic signal

All programs will be locked after start. Changing the program or finishing the program will be possible only after pressing the start button for longer then 1.5 sec. (Break by customer)

A switching off the appliance or unplug the appliance for a while, this will frozen the program step and later on, the program continuos on the same position.

Exception: Switching off the appliance or unplug the appliance during the drying phase, this will lead directly to the end of the program.

Water Volume at permanent spray system

Water	Volume	Level
Back rinse 3x	1.0 l	60 mm
Prewash	4.8 l	120 mm
Main wash	4.2 l	118 mm
Intermediate rinse 1	4.2 l	118 mm
Intermediate rinse 2	4.2 l	118 mm
Clear rinse	4.2 l	118 mm
Safety/ overflow	8.5 l	141 mm

Measuring the level

Remove the coarse sieve, put in a measuring meter into the sump, measure the hight of the water level.

Detergent max.

Pre-wash	10	cm ³
Main-wash	40	cm ³
Rinse aid	135	cm ³
6 Dosage steps	1 - 6	ml

Water pressure

Inlet pressure	0.3 - 10	bar
Spray pump pressure	0.3	bar

Rotations

Spray pump motor	2800	RPM
Drain pump motor	3000	RPM
Spray arm lower	30 - 40	RPM
Spray arm upper	30 - 40	RPM

Technical data

Flow rates/ Inlet volume

Flow meter (at 0.3 bar = quantity 1.1 l/min)	208	lmp/l
Spray pump	45 - 65	l/min
Drain pump	16	l/min
Pump height max.	1.1	m
Inlet valve	4	l/min
Spray arm lower	~ 33	l/min
Sprayarm upper	~ 27	l/min
Shower/ Sprayarm top	~ 8	l/min

Electrical base data

Voltage	240	V
Frequency	50	Hz
Total power	2.4	kW
Fuse	10	A

Spray pump motor permanent spray system

Voltage	220/ 240	V
Power consumption	130	W
HI	62	Ω
HA	74,8	Ω
Capacitor	4	μ F

Drain pump motor

Voltage	220/ 240	V
Power consumption	30	W
Resistance	146	Ω

Heating - 1 Element system

Voltage	240	V
Power consumption	2.22	kW
Resistance	24.5	Ω
Heating speed	~ 2.0	$^{\circ}$ C/min
Temperature on surface	~ 115	$^{\circ}$ C
Safety thermostat self reset (Temperature of water)	~ 85	$^{\circ}$ C
Fuse	206	$^{\circ}$ C

Water safty options

Waterstop system	Reflex Waterstop
------------------	------------------

Single electric water inlet valve

Voltage	220/ 240	V
Frequency	50/ 60	Hz
Resistance	3.76	k Ω

Coil of dispenser

Voltage	220/ 240	V
Frequency	50/ 60	Hz
Resistance	1.3	k Ω

Reed contacts

flow meter
rinse aid control

NTC

20 $^{\circ}$ C	58.1	k Ω
25 $^{\circ}$ C	47.1	k Ω
30 $^{\circ}$ C	38.2	k Ω
40 $^{\circ}$ C	25.4	k Ω
50 $^{\circ}$ C	17.2	k Ω
60 $^{\circ}$ C	11.8	k Ω
70 $^{\circ}$ C	8.3	k Ω
80 $^{\circ}$ C	6	k Ω
85 $^{\circ}$ C	4	k Ω

Accessory

If you need spare parts apart from the spare part list have a look in the Service Bulletin 4812 718 40084.

For higher mounted Dishwashers to prevent the drain off effect - also usable for lower drain pipes and to prevent the failure F8 use Kit 4812 310 18993.

Spare part list

Model
Service No.
Version

DWH B80 W
854240053000
854240053000

Pos. No.	12NC Code	Description
003 0	4812 440 11455	Crossbar
004 0	4812 440 11463	Drip tray assy
004 1	4812 401 18402	Holder
011 0	4812 505 18418	Foot long
011 1	4812 528 98004	Shaft flexible
011 2	4812 528 78032	Slide disc f.foot
011 3	4812 535 98054	Gear
011 4	4812 528 98001	Roll f.foot
022 0	4812 440 11467	Side panel left metallic
022 1	4812 440 11466	Side panel right metallic
024 0	4812 440 11468	Panel rear
040 1	4812 417 18774	Hinge left
040 2	4812 417 18773	Hinge right
044 0	4812 492 38362	Spring f.door
047 0	4812 404 48746	Brake f.door
047 1	4812 401 18707	Band,brake
047 2	4812 404 68023	Hook
053 0	4812 440 89138	Plinth w/o hohle sheet
065 0	4812 466 48051	Insulation without outcut
103 0	4812 440 11465	Door outer
105 0	4812 404 48611	Fastener door
105 2	4812 505 68022	Clip
105 3	4812 404 48633	Fastener
105 4	4812 310 58116	Template FD
120 0	4812 440 19456	Door inner
120 1	4812 440 11454	Batten
130 0	4812 417 58398	Tilt lock
131 0	4812 401 18416	Hook lock
175 3	4812 466 68867	Batten
191 0	4812 466 68564	Gasket door
192 0	4812 466 68467	Gasket door lower
241 0	4812 458 19027	Basket upper straight
241 1	4812 458 19264	Holder cups right saph.VBL
241 3	4812 528 88113	Wheel basket upper (set)
241 6	4812 310 18757	Holder glasses kit wh
241 6	4812 458 19355	Holder glasses wiring alu.VBL
241 6	4812 535 78095	Bearing wiring glassholder saph.
241 8	4812 466 68848	Spacer saph
242 0	4812 310 28136	Basket lower KIT
242 1	4812 528 88069	Wheel basket lower wh
243 5	4812 310 38897	Cutlery basket KIT
243 6	4812 458 19296	Grille saphire
261 0	4812 462 79831	Rail telescope, inner
261 1	4812 462 79768	Cap rail rear saph.
261 2	4812 462 79902	Cap rail front
263 0	4819 520 18013	Ball cage cpl.
263 1	4812 310 48026	Service kit balls plastic
265 0	4812 404 49712	Basket adjustm. VBL cpl.saph-opaco
265 2	4812 404 48934	Grip basket adj.opaco
301 0	4812 453 71765	Control panel
322 0	4812 453 73459	Insert
332 5	4812 410 28556	Cap f.beater
400 0	4812 361 58434	Motor +SP,50Hz,per.
405 0	4812 360 18568	Pump body Crin Serv.Part
405 2	4812 530 29437	Connection Outlet ServiceKit CRIN

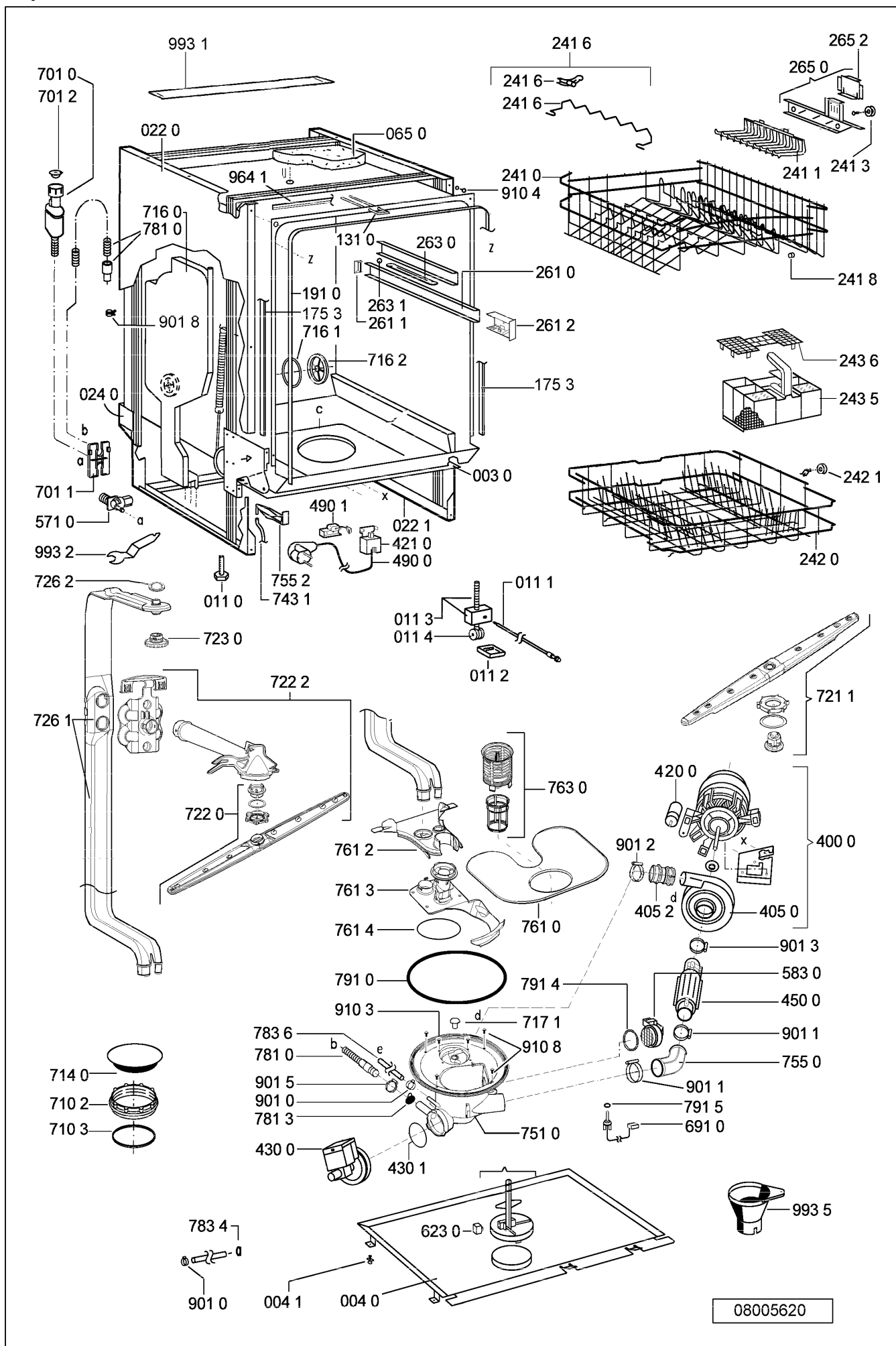
Pos. No.	12NC Code	Description
420 0	4812 121 18277	Capacitor
421 0	4812 121 18276	Interf.filter
430 0	4812 360 18558	Pump,draining cpl.
430 1	4812 466 68689	Gasket
450 0	4812 259 28892	Heating element 2,04 kW
480 0	4812 321 28416	Cable harness IC-FD (LS6)
480 1	4812 321 28475	Cable UCB-DB
480 3	4812 401 18418	Protector f.wiring
490 0	4812 321 18051	Cable mains
490 1	4812 321 28367	Strain relief
503 0	4812 282 10183	Timer switch delay 3-6-9(DLB)
521 0	4812 218 38347	Control board SAM BASIC
521 0	4812 218 38556	Control board UCB
571 0	4812 281 28462	Valve inlet
583 0	4812 271 28556	Switch diaphragm
616 1	4812 271 58184	Contact reed rinsing agent
621 0	4812 276 18493	Switch on/off
623 0	4812 271 38489	Microswitch
633 0	4812 271 38488	Microswitch door
680 0	4812 418 68371	Combidosage cpl.w.KSM saph/opaco
680 1	4812 466 68495	Gasket
680 3	4812 440 11209	Lever,fastener combidos.
681 1	4812 466 68497	Gasket
681 2	4812 440 18975	Flap
682 0	4812 466 68496	Gasket
691 0	4812 282 68051	Feeler NTC
701 0	4819 530 28926	Hose inlet 2.5 m (Eltek)
701 1	4812 310 18302	Yoke
701 2	4822 480 50159	Sieve inlet
710 2	4812 310 38896	Threaded ring
710 3	4819 466 69562	Gasket set
714 0	4812 462 79921	Threaded cap
716 0	4812 418 68377	Reg.dosage
716 1	4812 466 68475	Gasket
716 2	4812 462 78994	Cover
717 1	4812 462 79793	Stopper
721 1	4812 360 68689	Spray arm lower. cpl. sa
722 0	4812 360 68687	Spray arm upper sa
722 2	4812 360 68693	Spray arm 2nd level cpl. saph
723 0	4812 360 68691	Douche ceiling
726 1	4812 530 29331	Tube assembly cpl.saph
726 2	4812 505 18208	Nut
743 1	4812 530 28102	Hose inlet
751 0	4812 418 18338	Water collector
755 0	4812 530 29119	Bend
755 2	4812 530 48148	Tray leak
756 0	4812 360 58479	Floater
761 0	4812 480 58122	Sieve fine
761 2	4812 418 18337	Cover sieve
761 3	4812 418 18341	Cover
761 4	4812 530 58141	O-Ring
763 0	4812 480 58363	Sieve coarse
781 0	4812 530 29113	Hose draining
781 3	4812 281 28417	Flap non-return
783 4	4812 530 28904	Hose 10x3x265+10

Spare part list

Model	DWH B80 W
Service No.	854240053000
Version	854240053000

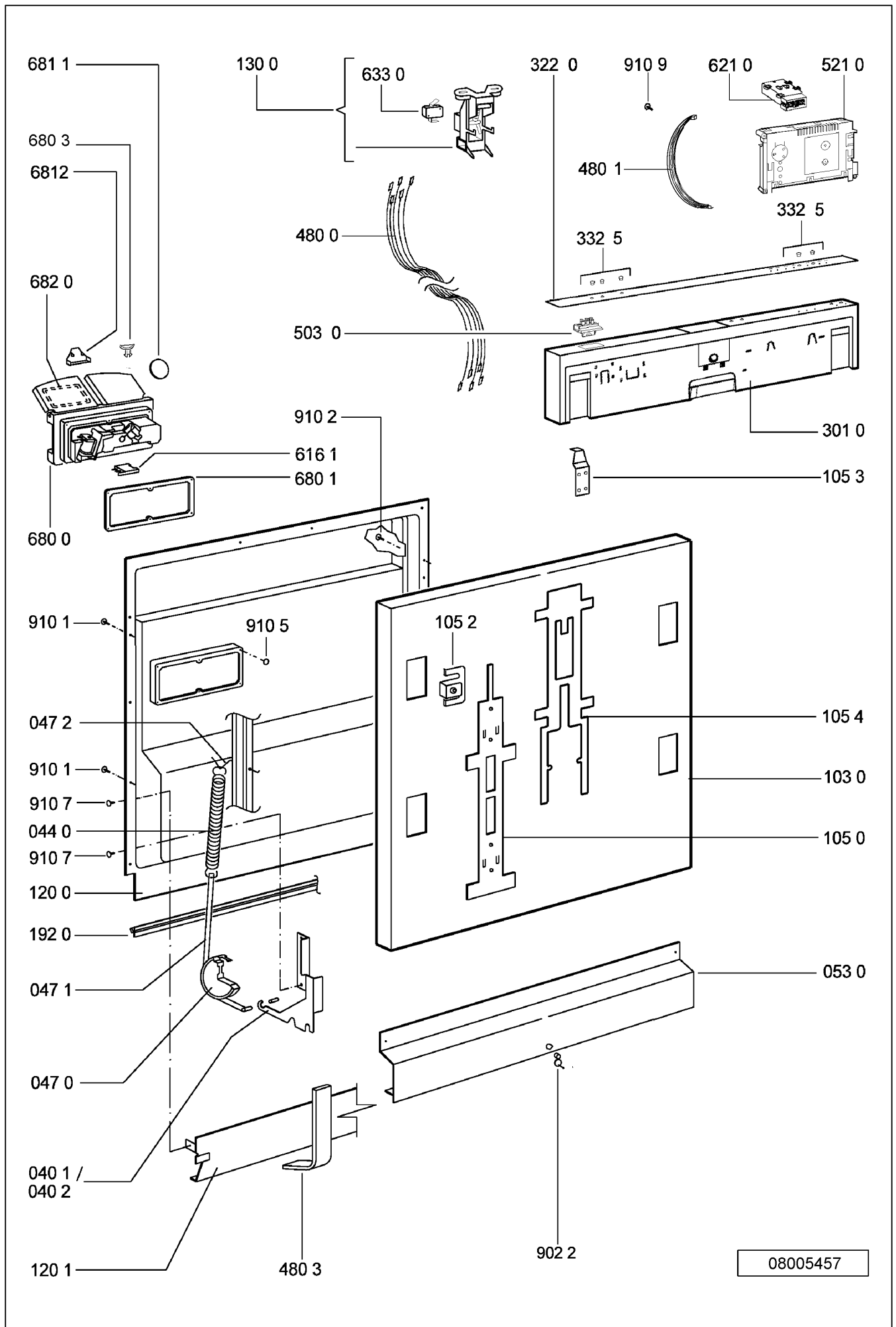
Pos. No.	12NC Code	Description
783 6	4812 530 28824	Hose 10,3X3X245
791 0	4812 532 68099	Gasket
791 2	4812 530 58093	Gasket
791 4	4812 466 68503	Gasket
791 5	4812 466 68504	Gasket
900 1	4812 310 28351	Fastener set n.sh. (IKEA)
901 0	4812 401 18709	Clamp hose S10-16/9-C7W1
901 1	4812 401 18708	Strap 050,0
901 2	4812 401 18705	Strap 033,1
901 3	4812 401 18806	Strap 47,0 mm
901 5	4812 401 48588	Strap 028,6
901 8	4812 401 18711	Clamp hose 25-29
902 2	4812 404 78241	Holder
910 1	4812 502 18394	Screw 3,5x14-H
910 2	4812 502 18363	Screw 4,0x12-H
910 3	4812 502 18527	Screw 4x15 T20
910 4	4812 502 18741	Screw M3,5x8-T15M
910 5	4812 502 18739	Screw 3,5x8 Tx15
910 7	4812 502 18397	Screw INOX A2 M 5X12
910 8	4812 502 18389	Screw 5x20 T20
910 9	4812 401 18706	Screw 2,5x18-H
964 1	4812 466 68573	Gasket housing upper
993 1	4812 466 78388	Foil protection
993 2	4812 404 48753	Key foot
993 5	4822 532 80216	Funnel salt

Exploded view

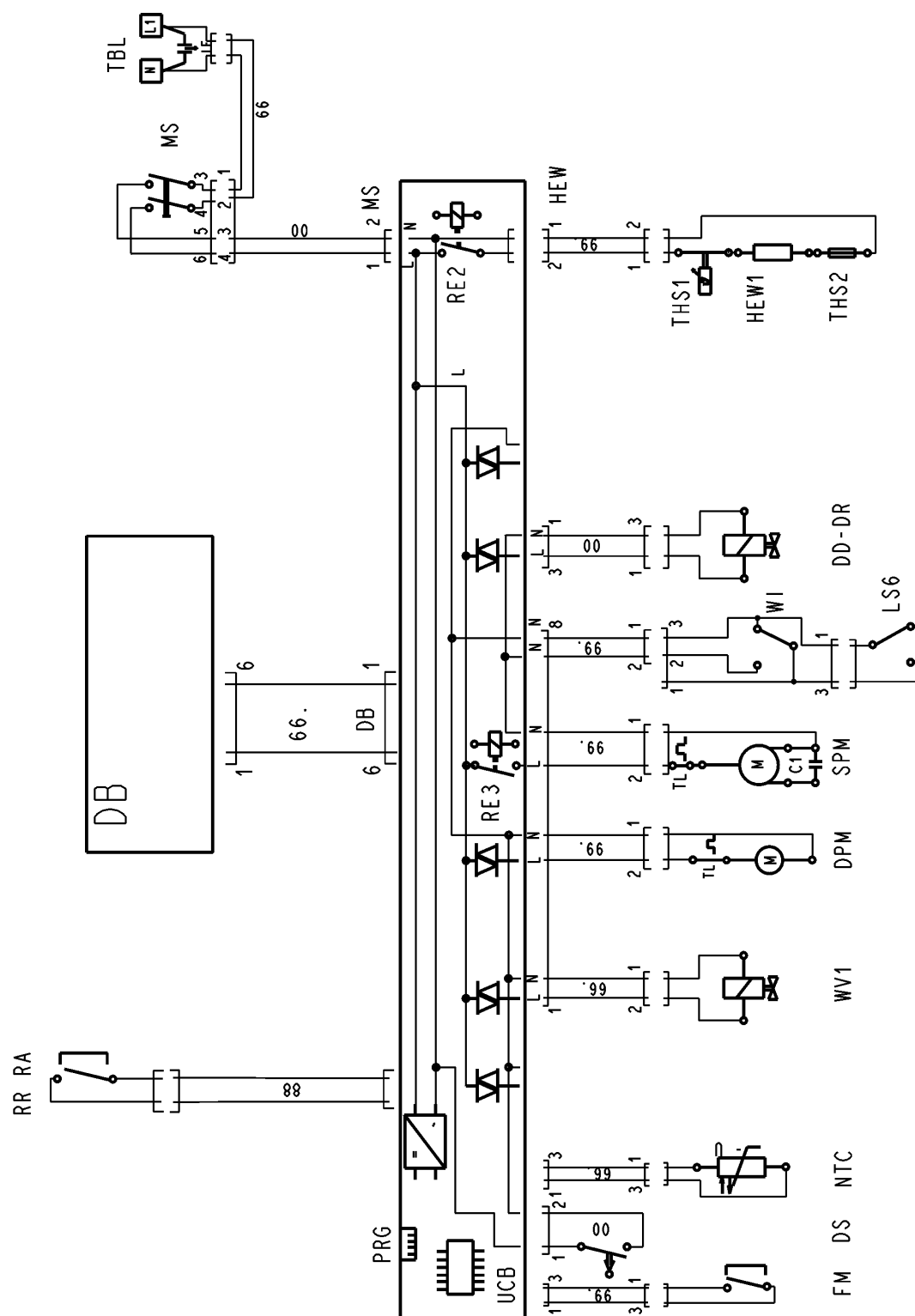


08005620

Exploded view



08005457



4619 725 43491

- | | |
|-------|----------------------------------|
| 3in1 | Multi-tablet Micro switch (3in1) |
| C1 | Capacitor |
| DLB | Timerswitch Delay |
| DPM | Drain pump motor |
| DD | Cleaning agent dosage |
| DR | Final rinse dosage |
| DS | Door switch |
| FM | Flow meter |
| HEW | Heating |
| IF | Interference filter |
| L | Line |
| LS6 | Water leakage switch |
| MS | Main switch |
| NTC | Thermostat temp. sensor |
| N | Neutral |
| PRG | Plug to program |
| RE2 | Relay Heating |
| RE3 | Relay Spray pump motor |
| RR SA | Reed relay salt |
| RR RA | Reed relay rinsaid |
| SPM | Sprayarm motor |
| THS1 | Safety thermostat |
| THS 2 | Fuse |
| TBL | Power supply terminal |
| TTL | Winding protective contact |
| UCB | User- and Control board |
| VMI | Fan ventilator |
| WV1 | Water inlet valve |
| WV2 | Water regenerating valve |
| WI | Water indicator |
| 00 | black |
| 66 | blue |
| 88 | grey |
| 99 | white |

(Ä10: 4619 724 44201/10)
23.10.2006
4619 724 44201-1

Text/Legend

Test procedure for SERVICE-TEST-PROGRAM Point dishwashers Integrated Board - Full door.

Switch on the appliance.

1. If there is a defective component indicated, open up the control board (CB).
2. Check the component.
Unplug the indicated component from the control board (CB) and check it by using an ohmmeter.
If the resistance is not correct, check the cables to the component and check the component itself.
3. Visually check the control board (CB).
4. At the end of the repair start the appliance and delete the failure (press in the start button for more the 1.5 sec). After this, start the test program again to see that the failure is solved.

More details: see following pages.

Attention:

Danger of short circuit. Short circuits on components can damage the control board (CB).

If electronic boards are wet, do not switch the appliance on.

To check the appliance, plug in the appliance.

Failures, which occurred during the program will be stored and indicated by flashing the start LED.

The failure will be indicated and can be related to the failure table.

To erase the failures, you must push the start button longer than 1.5 seconds.

The failures:

F1 NTC break

F9 continuous water inlet

are checked and indicated immediately after start of the program.

Therefore these failures have to be solved before starting the test program.

When these failures are not solved, the test program does not run.

The electrical components get their voltage via triac from the control board (CB). To test the voltage the voltmeter must be connected in parallel to the component (the component must be connected). If the component is disconnected, then the output voltage from the control board (CB) is reduced.

After starting a program this program is locked. That means neither by unplugging/switching off the appliance nor by setting to another program, the first set program cannot be changed.

Changing of the program is only possible by pushing the start button again for longer than 1.5 sec..

Attention: New service control boards start at first with the service test program. This test program is without back rinsing. Dangerous for overfilling the appliance, in case the appliance is not empty. By running the test program or another program a second time, the back rinsing will be carried out as usual.

Text/Legend

Handling of failures











- F1. NTC break
Temperature out of the normal value (-3°C till +85°C)
- Temperature inside higher than +85°C
- NTC defective
- Dishwasher is frozen, less than -3°C
If the temperature is less than -3°C, fill the appliance with a cup of warm water to warm it up before you start it..
- F2. Water Leakage
- Water is in the drip tray
Floater (LS6) switches off the WV1 and the electronic switches on the DPM until WI reports that it is empty.
- F3. Heating System Defective
Indicated after app. 25 minutes (1. check after 5 min., after that follow 2 more checks, before the failure is indicated)
- Heats too slowly (less than 1.5 °C in 10 min.)
- Heating (HEW) defective
- Relays (RE2) on control board (CB) is defective
- NTC - resistance fluctuation
- F4. Draining Failure
Drain pump starts and after 4 min. the WI detects that it is "not empty"
- Drain pump (DPM) defective
- Siphon closed
- Control board (CB) defective
- WI defective. (doesn't switch back anymore)
- F6. Water Tap Closed
Water valve (WV1) is switched on but flow meter (FM) sends no impulses (less than 10 imp. in 10 sec.) and the water indicator (WI) is off (empty)
- Water tap closed
- Water inlet hose blocked
- Water inlet valve (WV1) defective
- F7. Flow Meter Failure
Water inlet valve (WV1) is switched on and the water indicator (WI) is on (full).
- Flow meter (FM) sends too few impulses (less than 10 imp. in 10 sec.)
- Water tap closed during water inlet
- Water inlet hose blocked
- Water inlet valve (WV1) defective
- Flow meter (FM) defective

Text/Legend

- F8. Water Level Failure.
Failures are supervised over the whole program.
Spray pump works, the WI switches more than 20 times in 2 minutes back.
- WI defect? Should switch on after approx. 1 Ltr
- Sieve blocked
- Water strongly foams
- Pot has over turned and has filled with spray water
- No stable spray pump (SPM) pressure.
- F9. Continuous Water Inlet
Water inlet valve (WV1) is switched off, water indicator (WI) on, flow meter (FM) sends impulses (more than 10 imp. in 10 sec.)
- Water inlet valve (WV1) mechanically not closed
- Triac (CB) permanently switched on. (short circuit)
Reaction: interval 30 sec. drain pump on / 20 sec. drain pump off in interval
- FA. WI Failure
WI does not switch on during water inlet.
Failure also, if LS6 switches off during water inlet in case of leakage.
- FE. EPROM Failure
After the start of the test programme the EPROM is immediately checked for errors and an error is displayed if any are found.

Text/Legend

Failure Display POINT- Integrated Controls

Alarm / Failure	Failure code
F1 NTC-Failure	 1 x flash 1s Pause 1 x flash.....
F2 Water Leakage Failure	START  2 x flash 1s Pause 2 x flash.....
F3 Failure in Heating System	 3 x flashes 1s Pause 3 x flashes.....
F4 Draining Failure	 4 x flashes 1s Pause 4 x flashes.....
F6 Water Tap Closed	 6 x flashes 1s Pause 6 x flashes.....
F7 Flow Meter Failure	 7 x flashes 1s Pause 7 x flashes.....
F8 Water Level Failure	 8 x flashes 1s Pause 8 x flashes.....
F9 Continuous Waterinlet	START  9 x flashes 1s Pause 9 x flashes.....
FA WI-Failure	START  11 x flashes 1s Pause 11 x flashes.....
FE EPROM Failure	START  15 x flashes 1s Pause 13 x flashes.....

 LED flashing

⇒ Note: Buzzer will continuously sound during a failure indication.

Text/Legend

Attention:

If you can't start the test program (Start button doesn't flash), normally there is one of the following failures detected: F1 or F9.

When these failures are not solved before, the test program will not run. After solving the failure you must "sign" (erase) the failure.

If a failure is indicated directly after you switch on the appliance. Then fix the mistake, erase failure and start the test program again (see following start procedure).

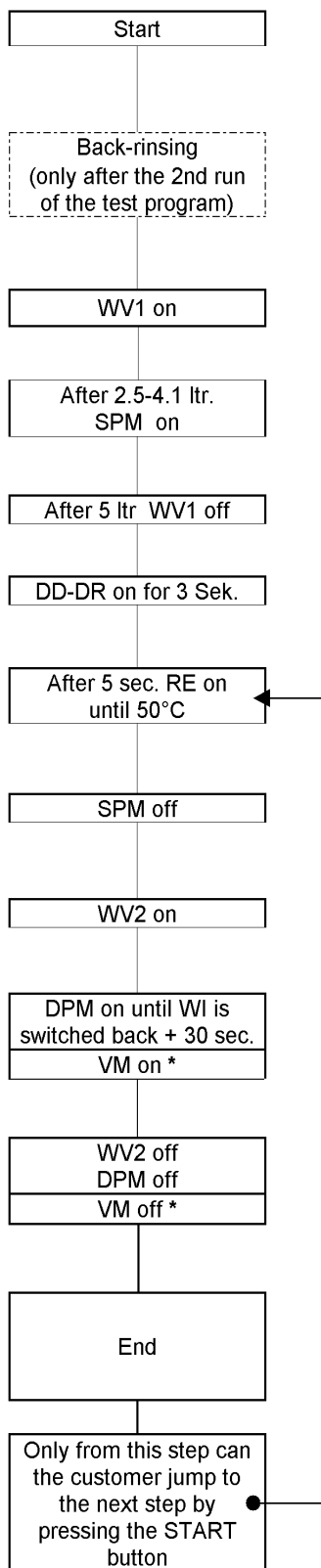
Start procedure

Start the test program if there is no failure indicated

1. Open the door
2. Turn ON appliance at the Mains.
3. Select program position 1.
4. Turn OFF appliance at the Mains.
5. Push start button and hold it.
6. Turn On appliance still holding the start button.
7. Release the start button when the Start-LED flashes.
8. Start the test program by pushing the start button again.
9. Failure indication.
10. Repair the failure.
11. Solve the failure by pushing the start button for longer than 1.5 sec.
12. Start the test program again, to see, if the failure really is solved.

Text/Legend

Test Programme



Remarks

The test program runs to the failure position and stops or, if there is no failure, it runs to the end.

To leave the test program push the start button for longer than 1.5 second's.

Not enough salt or rinse aid will not stop the running of the appliance.

When the failure position is reached the failure indication is indicated on the page "Failure Codes"

Attention:

If you can't start the test program (Start button doesn't flash), normally there is one of the following failures detected: F1, or F9

When these failures are not repaired, the test program will not run. After solving the failure you must "sign" (erase) the failure.

* if VM existence